

National 4 Homework 8

You can use a calculator in Q5

1. Calculate

(a) 40% of £960 (b) 34.9×800 (c) $57.28 - 9.4 + 13.72$ (d) $-7 + (-4)$ (e) $15 - 4 \times 2^2$

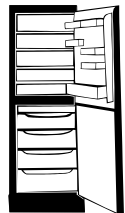
(f) $\frac{7}{8}$ of 124 (g) 25% of £26.40 (h) $\frac{8 + 3 \times 4}{10 - 6}$ (i) $75 \div 500$ (j) 20% of £89.45

2. The diameter of an atom is 0.000000000047 inches. Write this number in scientific notation.

3. The temperature gauge on a freezer shows that when the freezer door is closed the temperature is -21°C .

To defrost the freezer the door is opened and it is unplugged. The temperature now rises by 37°C .

What temperature does the freezer gauge now show?



4. A painter mixes red and yellow paint in the ratio 2:3 to make orange paint.

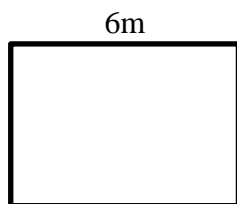
(a) If she has 8 litres of red paint, how many litres of yellow paint will she need to make orange paint?

(b) How many litres of orange paint will she now have?

(c) At the end of the week she has 30 litres of red and 30 litres of yellow paint in stock. What is the greatest number of litres of orange paint she can make?



5. Graeme decides to buy laminate flooring for his rectangular living room.



(a) What is the area of his living room floor?

Each pack of laminate flooring covers 2.46m^2 and costs £24.99.

(b) Calculate the number of packs he will need.

(c) Calculate the total cost of the laminate flooring.

6. Starting with the smallest, write the following in order.

$\frac{1}{4}$ 0.04 41% 0.404 $\frac{4}{10}$

7. Jim's fuel tank was $\frac{1}{5}$ full. It took 48 litres of petrol to fill the tank up.

How many litres of petrol does the tank hold altogether?